

FIG. 1

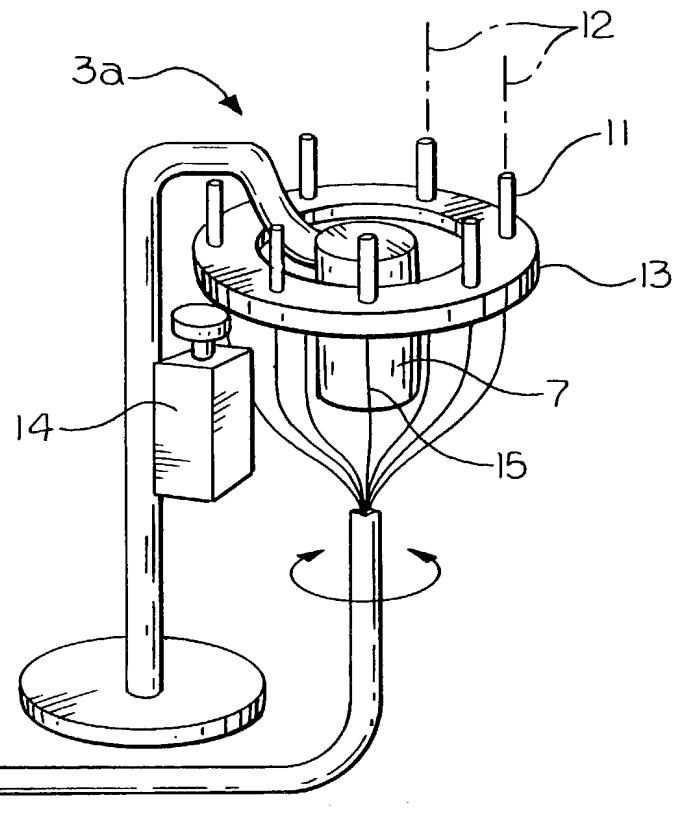


FIG. 2

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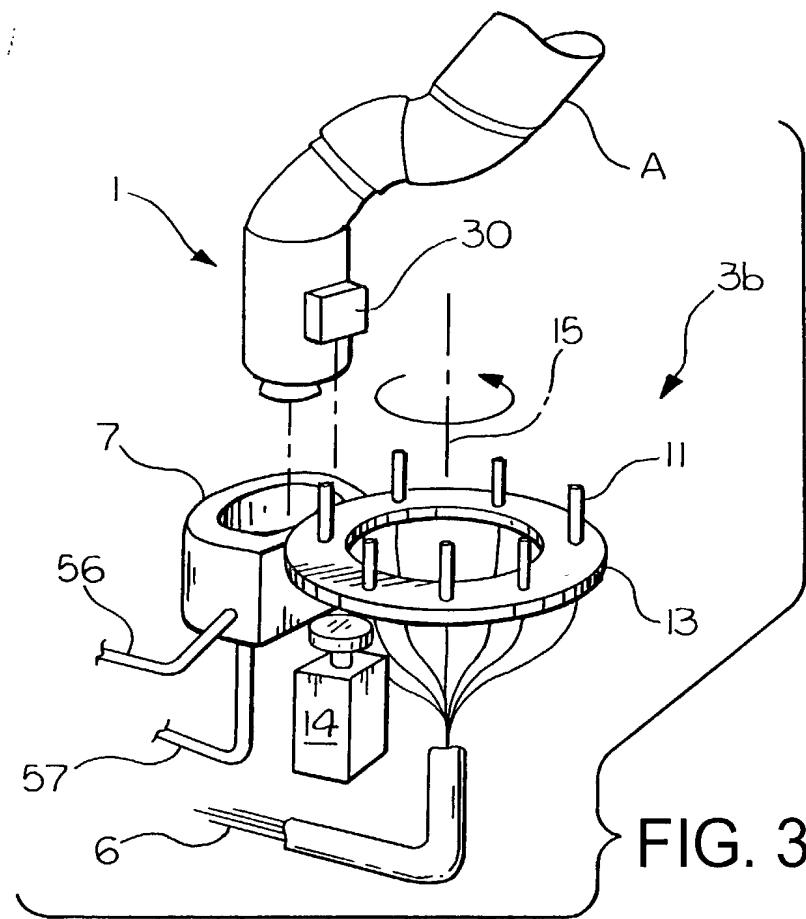


FIG. 3

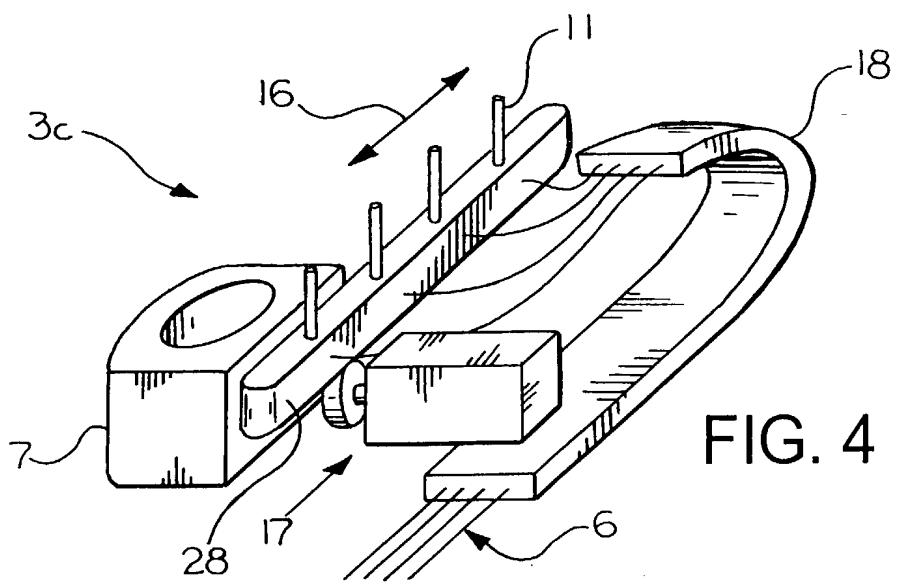
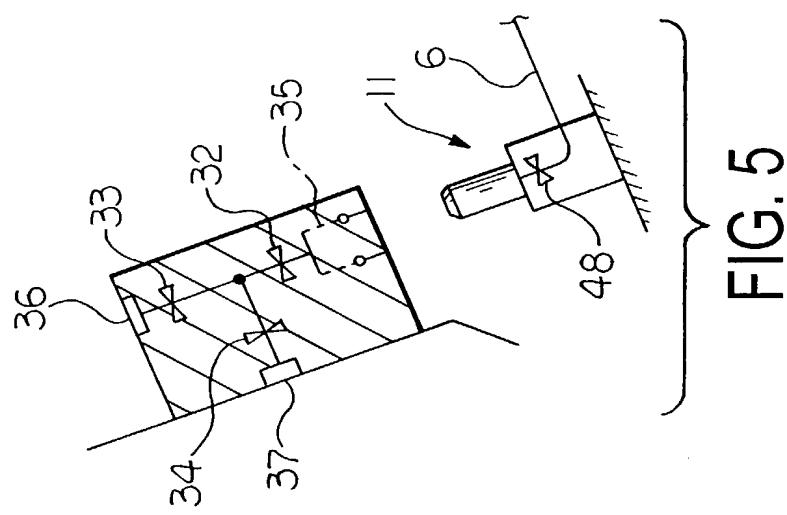
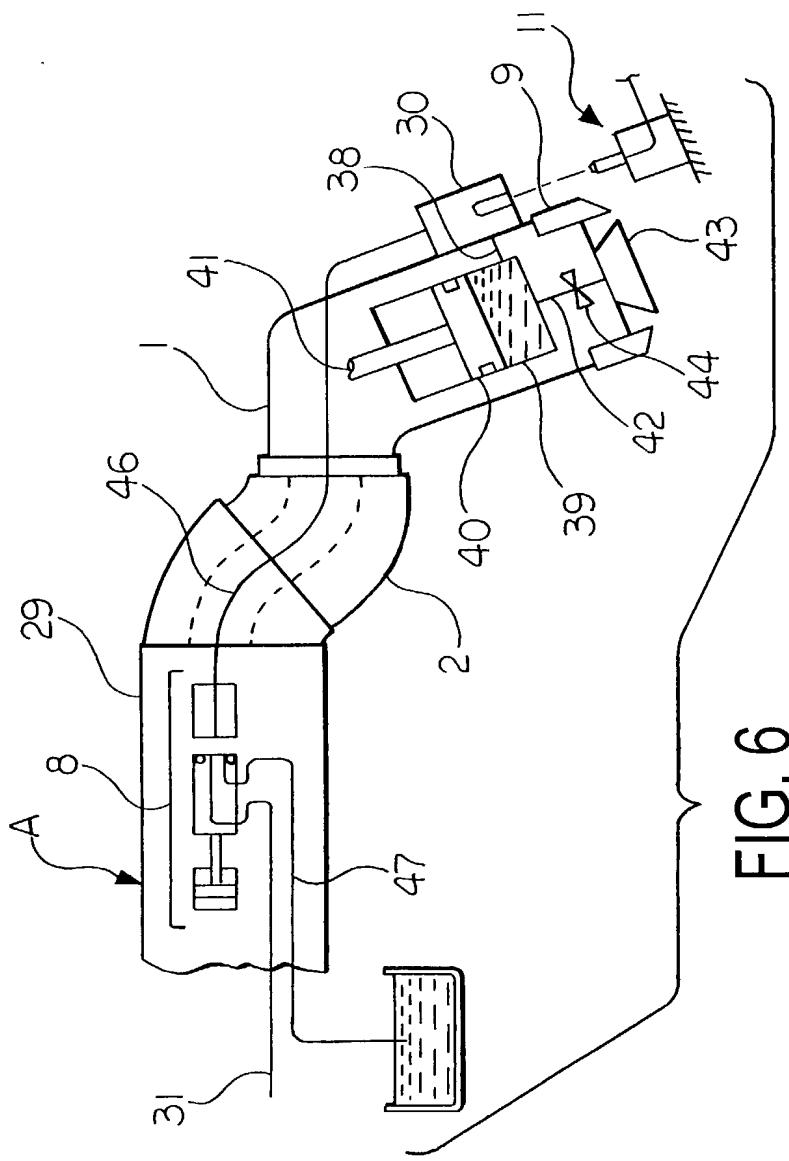


FIG. 4

SEARCHED  
INDEXED  
MAILED



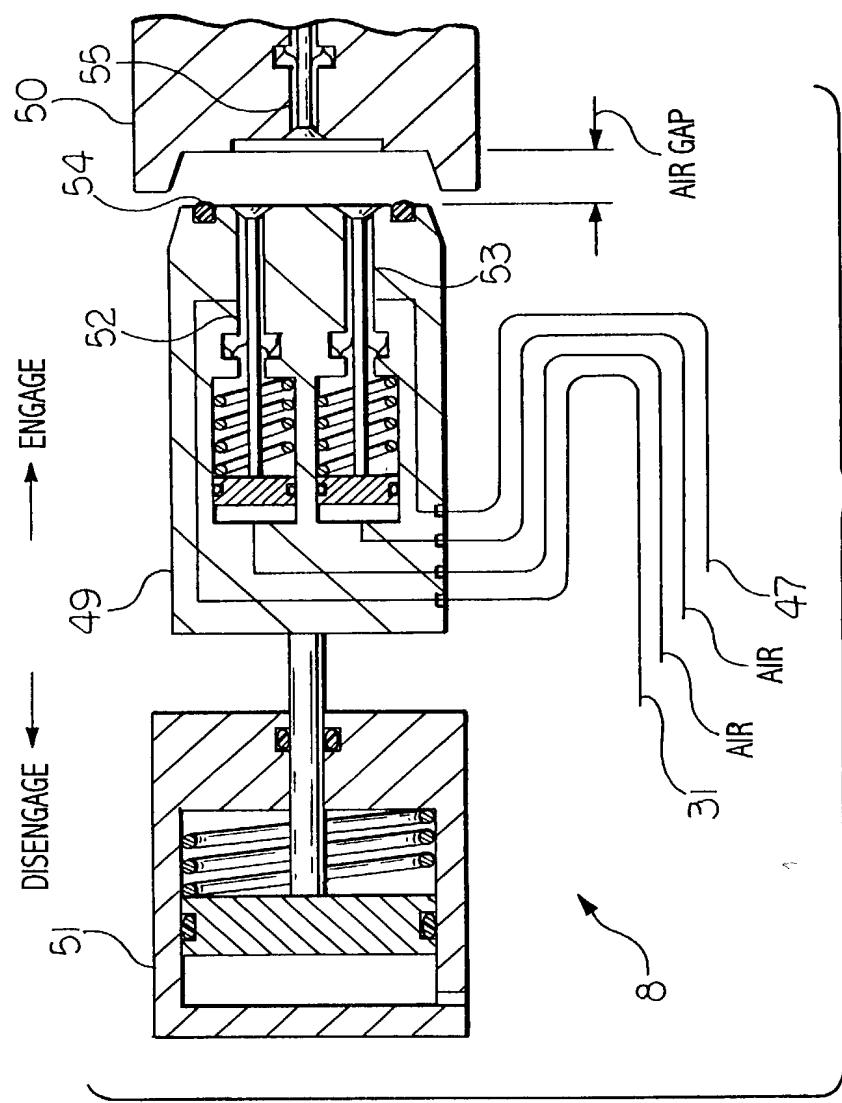


FIG. 8

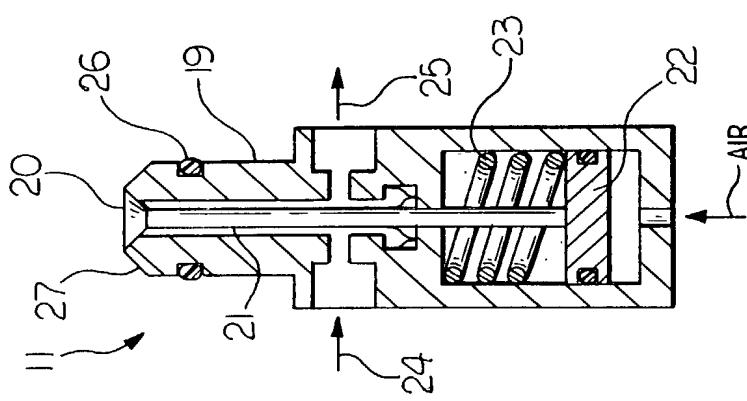


FIG. 7

PROCESS STEP	DESCRIPTION	VALVE STATE						DOCKING POSITION	PISTON POSITION
		8	52	53	55	32	33	44	48
A	FINISHED PAINTING GREEN							REMOTE	AT BOTTOM
B	CLEAN PISTON FACE AND BELL CUP, INDEX INJECTOR	ON	ON	ON	ON	ON	ON	REMOTE	OSCILLATE NEAR BOTTOM
C	DOCK WITH PAINT SUPPLY							DOCKED	AT BOTTOM
D	PRIME LINES WITH RED PAINT			ON	ON	ON	ON	DOCKED	AT BOTTOM
E	FILL CANISTER WITH RED PAINT			ON	ON	ON	ON	DOCKED	RETRACTING
F	LEAVE DOCK & CLEAN INJECTOR	ON	ON	ON	ON			NEAR	AT TOP
G	CLEAN CONTROL VALVE FACE	ON	ON	ON				REMOTE	AT TOP
H	PAINT WITH RED					ON / OFF		REMOTE	DISPENSE

FIG. 9

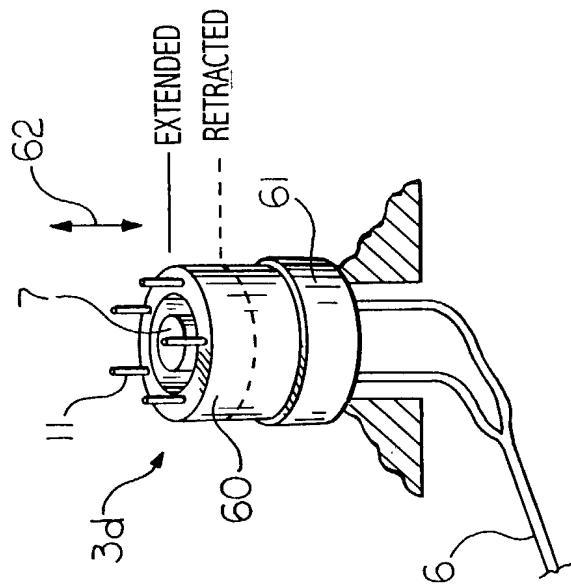


FIG. 11

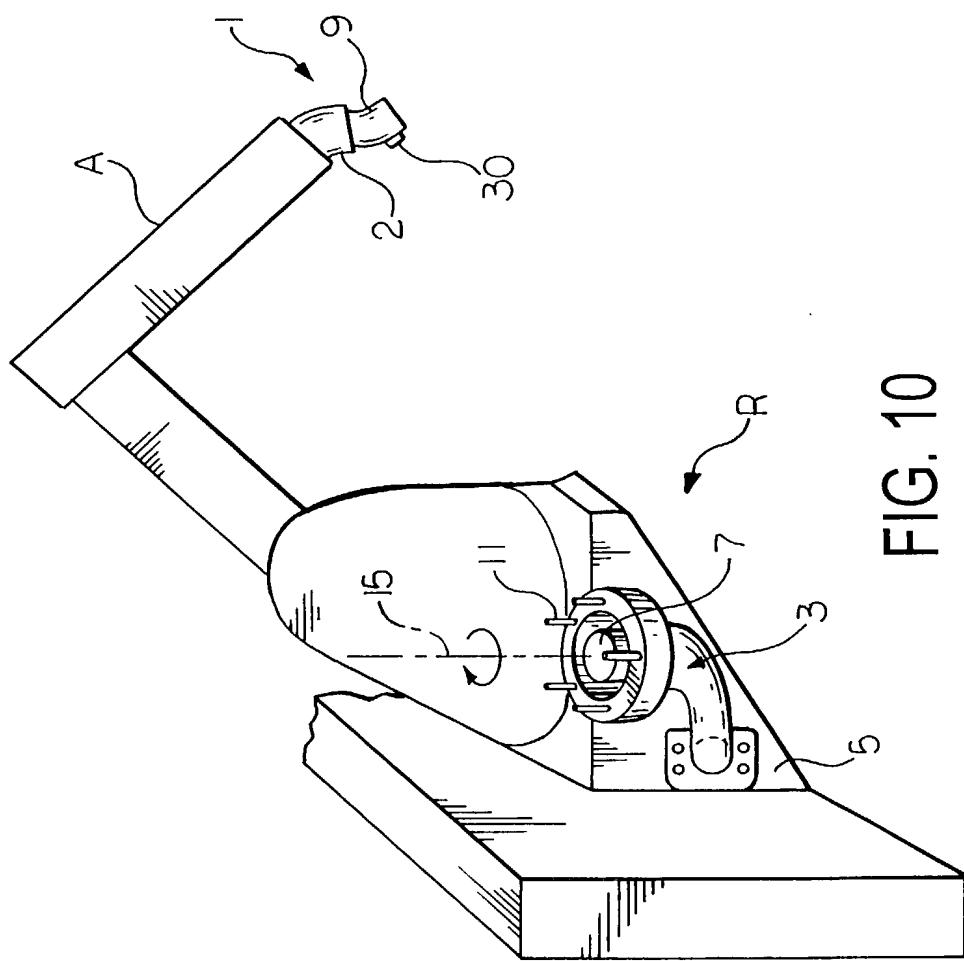


FIG. 10

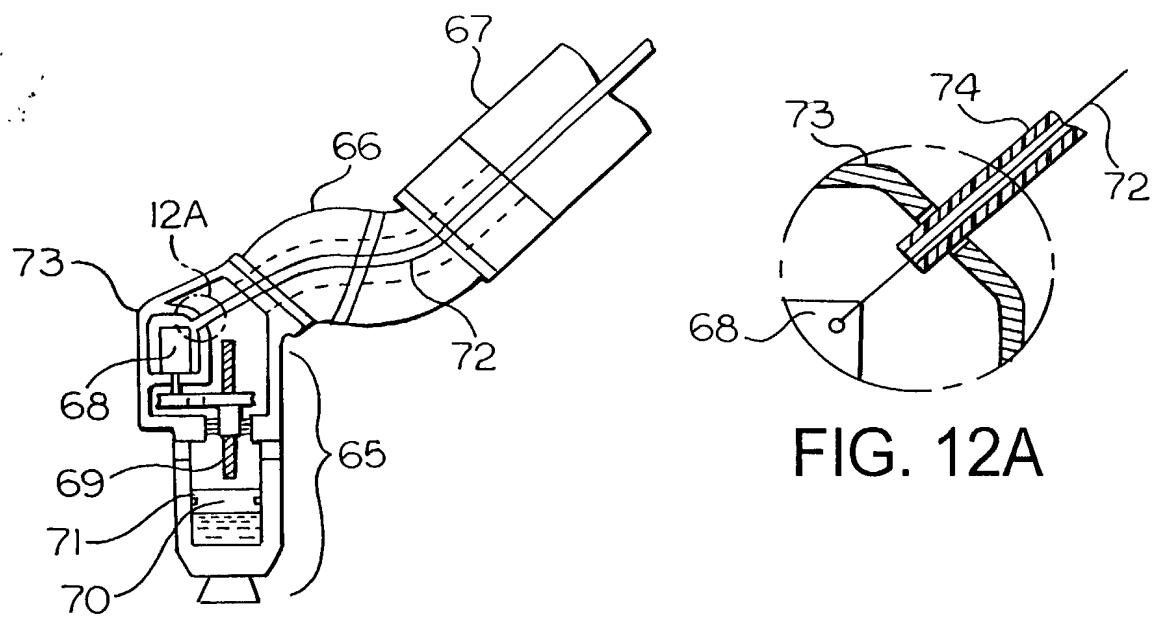


FIG. 12

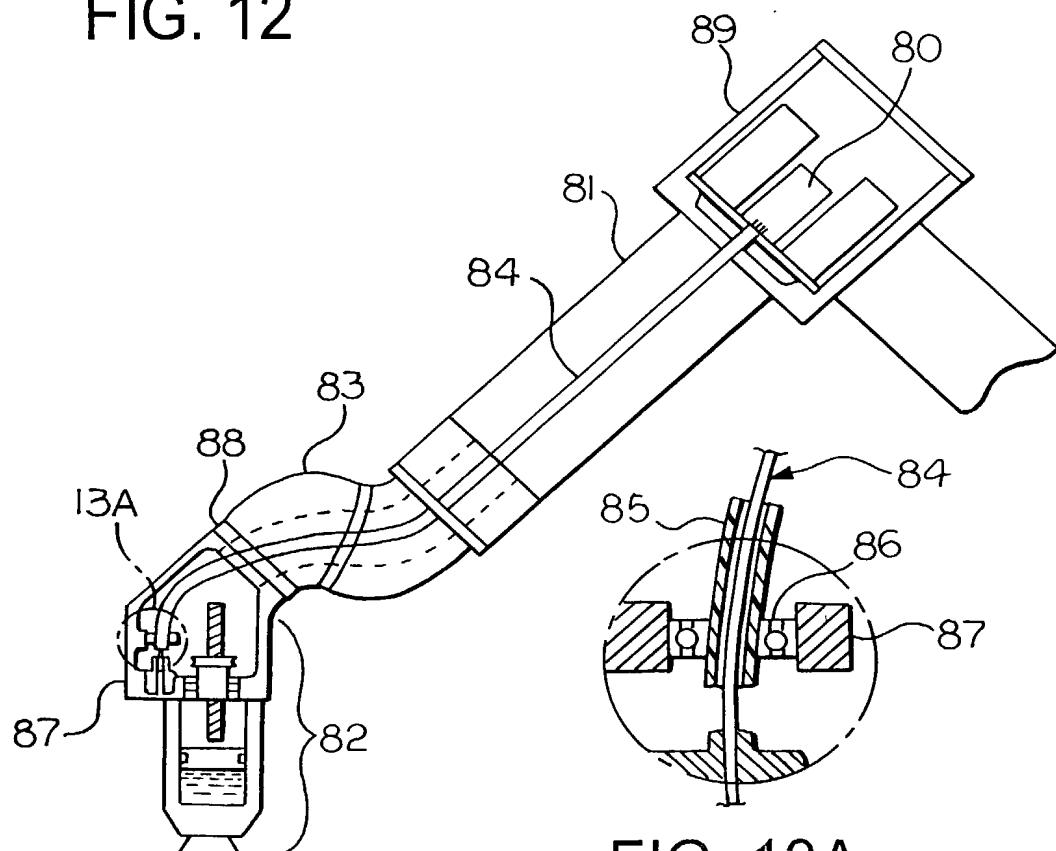
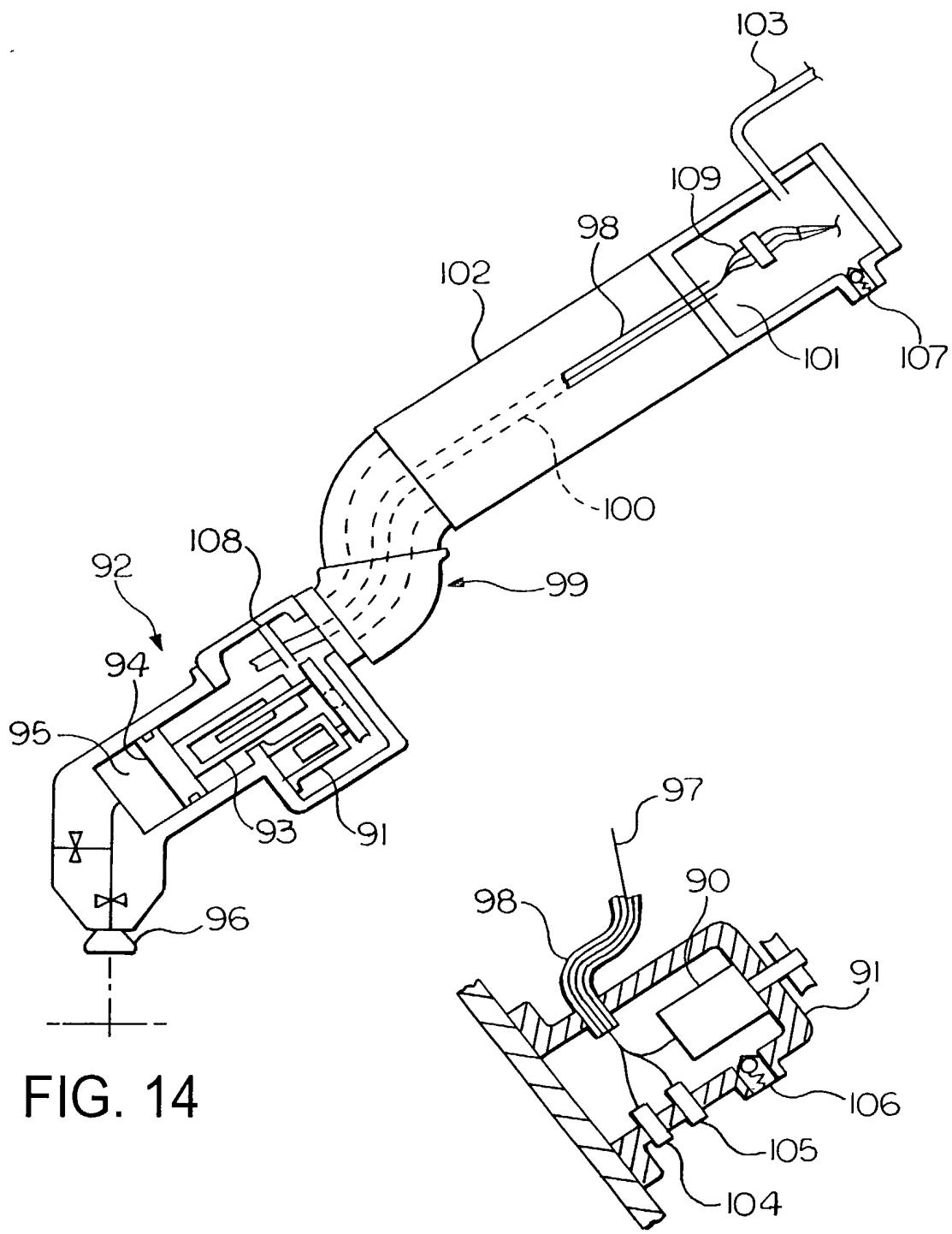
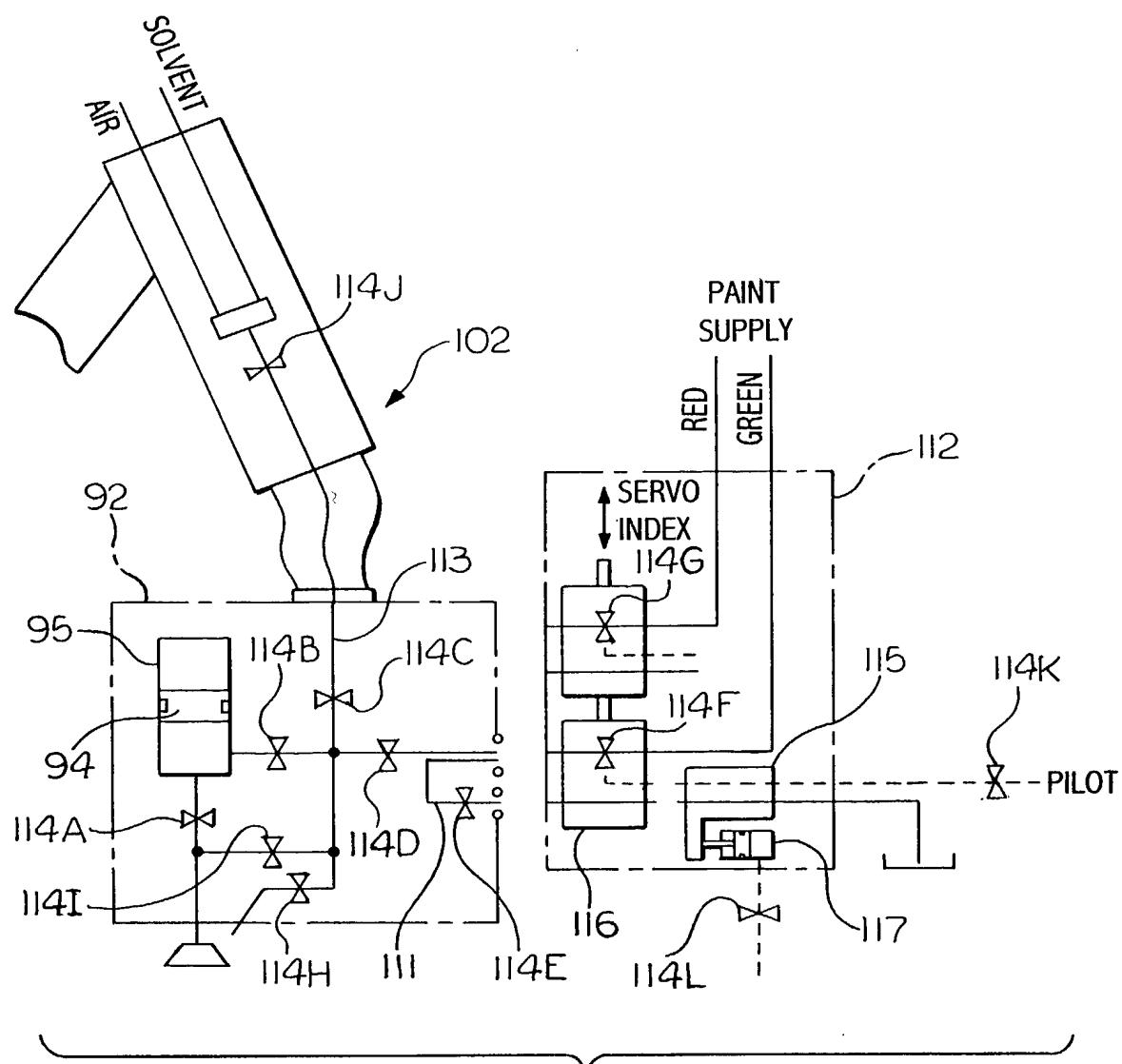


FIG. 13





PROCESS SEQUENCE - CHANGING COLOR	DOCKED	VALVE										
		A	B	C	D	E	F	G	H	I	J	K
DONE PAINTING RED	NO											
CLEAN PISTON FACE & INSIDE BELL CUP	NO	ON	ON	ON					ON			
CLEAN OUTSIDE OF BELL	YES/NO		ON						ON	ON		
INDEX TO GREEN SUPPLY	YES/NO	VALVE POSITION N/A (CAN BE PARALLEL PROCESS)										
CLEAN SHROUD	YES	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
PRIME LINES WITH GREEN	YES	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
FILL CAN WITH GREEN	YES		ON									
CLEAN & DRY DOCKING INTERFACE	YES		ON									
CONTINUE DRYING	NO		ON									
PAINT WITH GREEN	NO	ON										

FIG. 17

PROCESS SEQUENCE – REFILLING SAME COLOR	DOCKED	VALVE										
		A	B	C	D	E	F	G	H	I	J	K
DONE PAINTING RED	NO											
CLEAN INSIDE & OUTSIDE OF BELL	YES/NO		ON						ON	ON	ON	
CLEAN SHROUD	YES	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
PRIME LINES WITH RED	YES	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
FILL CAN WITH RED	YES		ON									
CLEAN & DRY DOCKING INTERFACE	YES		ON									
CONTINUE DRYING	NO		ON									
PAINT WITH RED	NO	ON										

FIG. 18

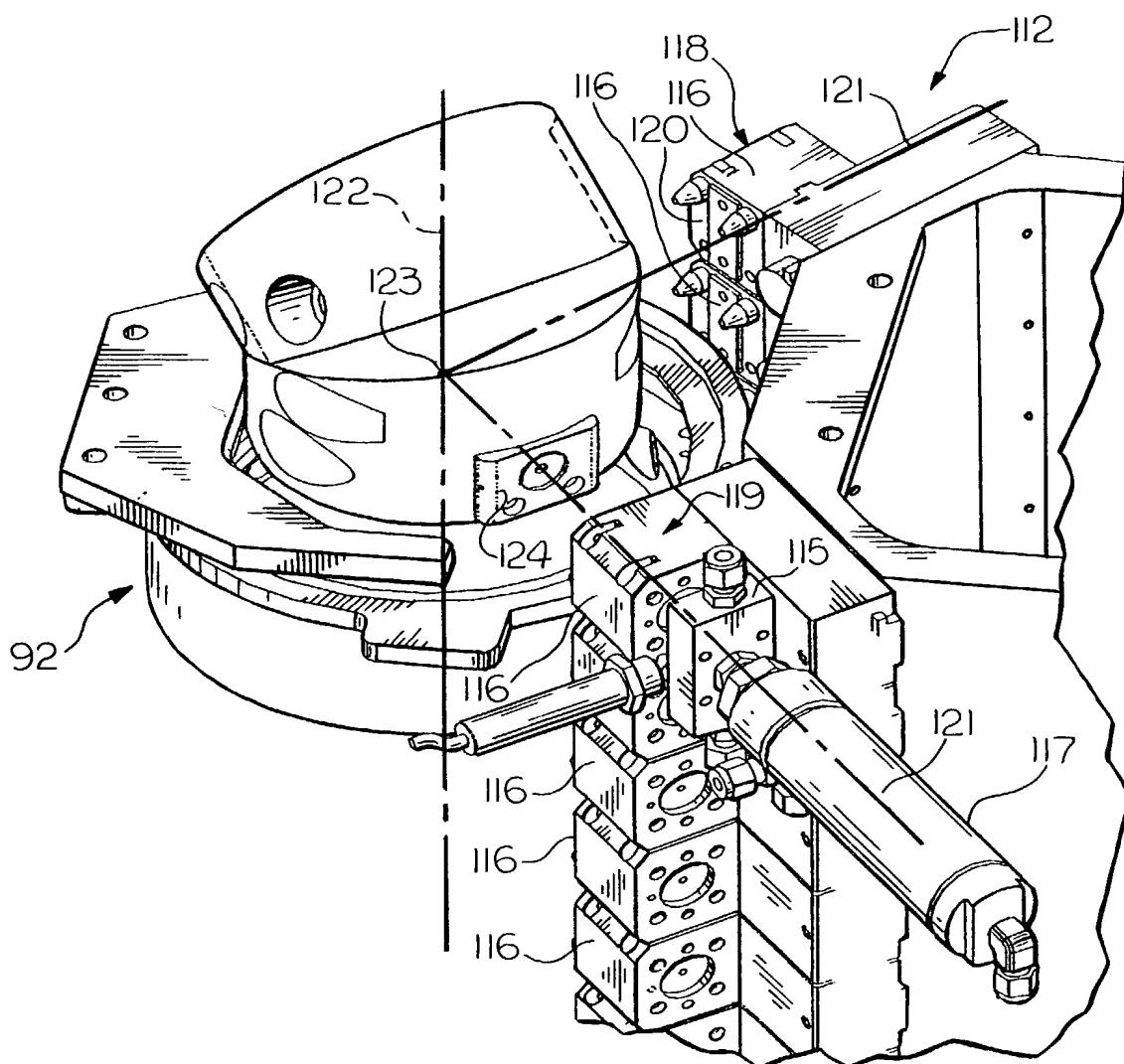


FIG. 19

FIG. 20

